

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 and 4-7 have been amended, claims 2-3 have been canceled and claim 8 has been added as follows:

Listing of Claims:

Claim 1 (currently amended): A disk apparatus that performs information reproduction by irradiating a laser beam onto a disk recording medium rotated in a CAV system, comprising:

a determining means for determining a reference reproduction laser power value by performing subjecting said disk recording medium to a test writing and a test reading on said disk recording medium at a first reference linear velocity of a predetermined zone in a ZCAV system;

a specifying means for specifying an optimal linear velocity coefficient on the basis of a current ambient temperature of said disk recording medium and a linear velocity at a portion to which said laser beam is to be irradiated ~~when performing said information reproduction;~~ and

a calculating means for calculating an optimal reproduction laser power value ~~on the basis of said~~ obtained by multiplying the reference reproduction laser power value and the linear velocity determined by said determining means by the optimal linear velocity coefficient specified by said specifying means, wherein,

said specifying means specifies said optimal linear velocity coefficient by use of a first relational expression indicative of a relationship between the ambient temperature of said disk

recording medium for a second reference linear velocity and a linear velocity coefficient, and a second relational expression indicative of a relationship between said linear velocity coefficient and said linear velocity.

Claim 2 (canceled):

Claim 3 (canceled):

Claim 4 (currently amended): A disk apparatus according to ~~any one of claims 1 to 3~~ claim 1, wherein said reference reproduction laser power value is obtained by adding a predetermined ratio of a lower limit reproduction laser power value to a lower limit reproducible reproduction laser power value.

Claim 5 (currently amended): A disk apparatus according to ~~any one of claims 1 to 3~~ claim 1, wherein said reference reproduction laser power value is obtained by subtracting a predetermined ratio of an upper limit reproduction laser power value from an upper limit reproducible reproduction laser power value.

Claim 6 (currently amended): A disk apparatus according to claim 1, wherein ~~the linear velocity of said predetermined zone~~ said first reference linear velocity is a linear velocity of an innermost periphery in a ZCAV system.

Claim 7 (currently amended): A disk apparatus according to claim 1, wherein ~~the linear velocity of said predetermined zone~~ said first reference linear velocity is a linear velocity of an outermost periphery in ~~the~~ the ZCAV system.

Claim 8 (new): A disk apparatus according to claim 1, wherein said first relational

Shigekazu MINECHIKA, et al. (§371 of International Application Number PCT/JP03/00383)

expression is an expression for decreasing a value of said linear velocity coefficient as said ambient temperature increases.